

20041206.ba v03_n734.bam.20041206

>From ???@??? Mon Dec 6 07:28:32 2004 -0600
Date: Mon, 6 Dec 2004 07:22:11 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3734
Message-Id: <20041206132213.B9924215AF4@srvr1.theporch.com>

BOATANCHORS Digest 3734

Topics covered in this issue include:

- 1) Re: SP-600 capacitor question
by Edward Knobloch <k4pf@juno.com>
- 2) Re: SP-600 capacitor question
by "Arden Allen" <gumbear@pacbell.net>
- 3) Re: SP-600 capacitor question
by "Arden Allen" <gumbear@pacbell.net>
- 4) Re: SP-600 capacitor question
by "Tom Rauch" <w8ji@contesting.com>
- 5) Re: Fw: The ARRL Letter, Vol 23, No 47
by David Stinson <arc5@ix.netcom.com>
- 6) Re: SP-600 capacitor question
by "Arden Allen" <gumbear@pacbell.net>
- 7) Re: Fw: The ARRL Letter, Vol 23, No 47
by "Arden Allen" <gumbear@pacbell.net>
- 8) ARRL Letter
by "b. smith" <smithab11@comcast.net>
- 9) Fw: SP-600 capacitor question
by =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
- 10) Re: Fw: The ARRL Letter, Vol 23, No 47
by "Tom Rauch" <w8ji@contesting.com>
- 11) Re: Fw: The ARRL Letter, Vol 23, No 47
by Richard Loken <richardlo@admin.athabascau.ca>
- 12) Re: Fw: The ARRL Letter, Vol 23, No 47
by Steve Berg <wa9jml@tbc.net>
- 13) Re: Fw: The ARRL Letter, Vol 23, No 47
by "Sandy" <ebjr@i-55.com>
- 14) Re: Fw: The ARRL Letter, Vol 23, No 47
by wb3fau@att.net
- 15) Re: Fw: The ARRL Letter, Vol 23, No 47
by WA5CAB@cs.com
- 16) Need Elmer for AI2Q 6L6 Xmtr
by Wj5mh@aol.com
- 17) WTB: 1930's transmitter
by "JAMES HANLON" <knjhanlon@msn.com>
- 18) Re: Need Elmer for AI2Q 6L6 Xmtr

- by "Tom Rauch" <w8ji@contesting.com>
- 19) Re: Fw: The ARRL Letter, Vol 23, No 47
by stuck in 50s <polepeeg@ba-watch.org>
 - 20) Re: Fw: The ARRL Letter, Vol 23, No 47
by stuck in 50s <polepeeg@ba-watch.org>
 - 21) Re: Need Elmer for AI2Q 6L6 Xmtr
by Wj5mh@aol.com
 - 22) Re: Need Elmer for AI2Q 6L6 Xmtr
by "Tom Rauch" <w8ji@contesting.com>

To: Old Tube Radios <boatanchors@theporch.com>
Cc: gumbear@pacbell.net, boatanchors@theporch.com
Date: Sun, 5 Dec 2004 00:59:16 -0500
Subject: Re: SP-600 capacitor question
Message-ID: <20041205.005916.332.5.k4pf@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: Edward Knobloch <k4pf@juno.com>

Hi, Tom

"Roger" about the coupling capacitor not being significant except at the low frequency end of the audio range - the familiar -3 dB RC rolloff point, with the a.c. drop across the coupling capacitor equal to the drop across the grid resistor, and a 45 degrees phase shift at that low frequency.

The disc ceramic data sheets I've seen at the Aerovox site show about a 10 percent non-linearity with respect to voltage. The capacitance at full rated voltage across the cap is around 10 percent less than the capacitance near zero d.c. across the cap.

You are right, with a large d.c. voltage across the cap, a relatively small a.c. coupling voltage drop would be a small perturbation. I suppose some people can hear the effect, but certainly not me - I have tin ears.

73,
Ed Knobloch

Message-ID: <002401c4daa5\$4f773d10\$53e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>

To: Old Tube Radios <boatanchors@theporch.com>
Cc: <boatanchors@theporch.com>
Subject: Re: SP-600 capacitor question
Date: Sun, 5 Dec 2004 00:34:54 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>a relatively small
> a.c. coupling voltage drop would be a small perturbation.
> I suppose some people can hear the effect, but certainly not me -
> I have tin ears.

In this case I think I have a tin distortion analyzer. It can't hear it either!

Arden Allen
KB6NAX

Message-ID: <002301c4daa5\$4ede7f80\$53e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: <boatanchors@theporch.com>
Subject: Re: SP-600 capacitor question
Date: Sun, 5 Dec 2004 00:31:19 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>My opinion is this is all a bunch of frantic arm-waving by
people who think oxygen free copper sounds better than zip
cord in speaker leads.

I couldn't agree more with you, Tom. The only reason I brought the triode/pentode issue into the discussion is because of what I've read in some of the audiophoolery hyperbole and thought that it might have a bearing on some of the notions afoot. My guess is these notions come from oxygen free sanctums.

Arden Allen
KB6NAX

Message-ID: <009301c4dabd\$a7404e20\$6601a8c0@akorn.net>
From: "Tom Rauch" <w8ji@contesting.com>

To: Old Tube Radios <boatanchors@theporch.com>
Cc: <gumbear@pacbell.net>, <boatanchors@theporch.com>
Subject: Re: SP-600 capacitor question
Date: Sun, 5 Dec 2004 06:29:15 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> of the audio range - the familiar -3 dB RC rolloff
point, with the a.c.
> drop
> across the coupling capacitor equal to the drop across the
grid resistor,
> and a 45 degrees phase shift at that low frequency.

Actually that's the 6dB point. Half voltage is 1/4 power and
that's 6 dB. Half voltage is $20\log .5$ or 6dB when we talk
about voltage or current.

> You are right, with a large d.c. voltage across the cap, a
relatively
> small
> a.c. coupling voltage drop would be a small perturbation.
> I suppose some people can hear the effect, but certainly
not me -
> I have tin ears.

I originally asked the question why large hard-to-find
replacement capacitors were used because I thought there was
something I didn't understand. I appreciate the time sorting
through this, and understand the answer is really that
sometimes we use parts for personal rather than electrical
reasons. I actually do that also. Sometimes I stick certain
parts in certain systems just because people are used to
seeing them, not because it does anything useful
electrically or mechanically but because it makes people
feel good about the parts.

Nothing wrong with that.

73 Tom

Message-ID: <41B30036.1030103@ix.netcom.com>
Date: Sun, 05 Dec 2004 06:33:58 -0600
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

JAMES HANLON wrote:

>>==>FCC DENIES AM, SSB BANDWIDTH PETITION
>>
>>The FCC has turned down a Petition for Rule Making that sought to
>>establish specific bandwidth standards for full-carrier
> AM and SSB Amateur Radio emissions.

Thank God that common sense wins one this time.
People need to remember that asking Uncle Sam to
solve our problems is like poking a sleeping dragon;
he *might* help you, but he's far more likely to fry you
(and us innocent bystanders) and bite you in two
while trying to "help."
How many of us remember Prose Walker and what happened
when a few people whined to the FCC about 2 meter repeaters?

The dragon is there to eat tax dollars,
sleepy dream of endless meetings and empires of paper,
and snore loudly (sounds like congressmen debating),
not deal with our petty little problems.
We're far better off working these things out
for ourselves. If someone is really a consistent pain,
a -friendly- visit by a half-dozen guys to
"counsel" him will do the trick without
waking the dangerous dragon.

73 Dave S.

Message-ID: <001f01c4daf8\$0b903040\$fae47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: <boatanchors@theporch.com>
Subject: Re: SP-600 capacitor question
Date: Sun, 5 Dec 2004 10:27:10 -0800
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Actually that's the 6dB point. Half voltage is 1/4 power and
> that's 6 dB. Half voltage is 20log .5 or 6dB when we talk

> about voltage or current.

Bandwidth is customarily defined as extending to the half power (-3DB) points, also known as the cutoff frequency(s), signified by F_c . The voltage decrease is $1/\text{square root of } 2$, or 0.707 . For an RC network $F_c = 1/(2\pi RC)$.

Arden Allen
KB6NAX

Message-ID: <004a01c4daf8\$835fba50\$fae47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
Date: Sun, 5 Dec 2004 10:29:53 -0800
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>a -friendly- visit by a half-dozen guys to
"counsel" him will do the trick without
waking the dangerous dragon.

I wonder if that would be a good theme for a Michael Moore movie.....

Arden Allen
KB6NAX

Message-ID: <000b01c4daf9\$aceea790\$94f02144@Denroom>
From: "b. smith" <smithab11@comcast.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ARRL Letter
Date: Sun, 5 Dec 2004 13:38:51 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 format=flowed;
 charset="iso-8859-1";
 reply-type=original
Content-Transfer-Encoding: 7bit

What is needed is to reinstate the Wouff-Hong concept.
Its not even in the HQ's lobby anymore.

...a -friendly- visit by a half-dozen guys to
"counsel" him will do the trick without
waking the dangerous dragon.

breck k4che

Message-ID: <000801c4dafe\$90944140\$7a56acce@oemcomputer>
From: =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fw: SP-600 capacitor question
Date: Sun, 5 Dec 2004 14:13:15 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bonjour to All

All these discussions about getting the most of comm. gear bring me back to the "hot rod" era when vintage cars were tuned to max. The term "modified" implies all kinds of mod. from butchering to state of the art, with apparent or hidden mods. but we could always detect the hot rods by the exhaust rumbles.

Is there an English word " Hot rod Boatanchor"?

Andre, Acres of Boatanchors

Message-ID: <010301c4db05\$0da5b6e0\$6601a8c0@akorn.net>
From: "Tom Rauch" <w8ji@contesting.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
Date: Sun, 5 Dec 2004 15:00:21 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> JAMES HANLON wrote:
> >>The FCC has turned down a Petition for Rule Making that sought to
> >>establish specific bandwidth standards for full-carrier
> > AM and SSB Amateur Radio emissions.
>
> Thank God that common sense wins one this time.

Removal of bandwidth limiting devices in or after the modulator (whether on SSB or AM) *and* the increase of lows and highs beyond communication audio levels (even if filtered) to play "hi-fi voice" is mostly good for making problems for all of us. Especially when frequencies or

operating times are not well chosen.

I for one hope the practice of pumping up the bass and treble doesn't grow.

I think we should discourage doing things that increase needless off-channel power levels, especially when a band is highly occupied. We can do that without setting rules that define parameters nearly all amateurs and many "professionals" can't measure.

73 Tom

Date: Sun, 05 Dec 2004 13:39:33 -0700 (MST)
From: Richard Loken <richardlo@admin.athabascau.ca>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Message-id: <Pine.PMDF.3.95.1041205133824.541216324B-1000000@admin.athabascau.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

On Sun, 5 Dec 2004, Arden Allen wrote:

> I wonder if that would be a good theme for a Michael Moore movie.....

Oh lord do get that started!

--

Richard Loken VE6BSV, Systems Programmer - VMS	:	"Anybody can be a father
Athabasca University	:	but you have to earn
Athabasca, Alberta Canada	:	the title of 'daddy'"
** richardlo@admin.athabascau.ca **	:	- Lynn Johnston

Message-ID: <41B373D5.2040802@tbc.net>
Date: Sun, 05 Dec 2004 14:47:17 -0600
From: Steve Berg <wa9jml@tbc.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Tom Rauch wrote:

>>JAMES HANLON wrote:
>> >>The FCC has turned down a Petition for Rule Making that
>>
>>
>sought to
>
>
>> >>establish specific bandwidth standards for full-carrier
>> > AM and SSB Amateur Radio emissions.
>>
>>Thank God that common sense wins one this time.
>>
>>
>
>
>

Several years ago I was in QSO with some of these hi-fi SSB operators, and asked them to analyze my signals. One of them had an audio spectrum analyzer hooked into his station in some way or the other. The upshot of this was that my Gonset GSB-100 phasing exciter and D-104 microphone scored quite well on their tests. They were very surprised to find out that they were listening to a 1950s vintage rig. I have it paired with a Drake 2B receiver. Now, they are on 6 meters with my boatanchor transverter and receiving converter.

73,

Steve WA9JML

>Removal of bandwidth limiting devices in or after the
>modulator (whether on SSB or AM) *and* the increase of lows
>and highs beyond communication audio levels (even if
>filtered) to play "hi-fi voice" is mostly good for making
>problems for all of us. Especially when frequencies or
>
>
>operating times are not well chosen.
>
>
>
> I for one hope the practice of pumping up the bass and
> treble doesn't grow.
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> I think we should discourage doing things that increase
> needless off-channel power levels, especially when a band is
> highly occupied. We can do that without setting rules that

> define parameters nearly all amateurs and many
> "professionals" can't measure.
>
> 73 Tom
>
>
>

Message-ID: <002401c4db2e\$a9c42880\$289fcdd1@s0023531634>
From: "Sandy" <ebjr@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
Date: Sun, 5 Dec 2004 18:58:11 -0600
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

BRAVO! I couldn't agree with you more Tom! All this "broadcast quality"
(supposedly!) audio is not for the ham bands. The people who want it
should get their own FM broadcast station licensed, not infest the rest of us
with very broad W-I-D-E signals on the amateur bands!

73,
Sandy W5TVW

PS: It is about as out of place as the proverbial "fart" in church!

----- Original Message -----

From: "Tom Rauch" <w8ji@contesting.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Sunday, December 05, 2004 2:00 PM
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47

| > JAMES HANLON wrote:
| > >>The FCC has turned down a Petition for Rule Making that
| sought to
| > >>establish specific bandwidth standards for full-carrier
| > > AM and SSB Amateur Radio emissions.
| >
| > Thank God that common sense wins one this time.
|
| Removal of bandwidth limiting devices in or after the
| modulator (whether on SSB or AM) *and* the increase of lows
| and highs beyond communication audio levels (even if
| filtered) to play "hi-fi voice" is mostly good for making
| problems for all of us. Especially when frequencies or
| operating times are not well chosen.

|
| I for one hope the practice of pumping up the bass and
| treble doesn't grow.
|

| I think we should discourage doing things that increase
| needless off-channel power levels, especially when a band is
| highly occupied. We can do that without setting rules that
| define parameters nearly all amateurs and many
| "professionals" can't measure.
|

| 73 Tom
|
|

From: wb3fau@att.net
To: Old Tube Radios <boatanchors@theporch.com>
Cc: David Stinson <arc5@ix.netcom.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
Date: Mon, 06 Dec 2004 01:38:23 +0000
Message-Id:
<120620040138.6760.41B3B80F0001569000001A6821602807489A0E00CC0D99@att.net>

Yes, OK, what are you 6 going to do when you pay him the "visit"?
Threaten him? tell him he can't operate wide band? Screw you and your
5 buddies!

From: WA5CAB@cs.com
Message-ID: <9a.1b2d4d40.2ee51ac3@cs.com>
Date: Sun, 5 Dec 2004 21:15:31 EST
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47
To: Old Tube Radios <boatanchors@theporch.com>
CC: arc5@ix.netcom.com
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_9a.1b2d4d40.2ee51ac3_boundary"

--part1_9a.1b2d4d40.2ee51ac3_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The old standby is to put straightpins into his antenna feed coax and cut the
heads off. :-)

In a message dated 12/5/2004 7:59:26 PM Central Standard Time, wb3fau@att.net
writes:

> Yes, OK, what are you 6 going to do when you pay him the "visit"?

> Threaten him? tell him he can't operate wide band? Screw you and your
>
> 5 buddies!

Robert Downs - Houston
<<http://www.wa5cab.com>> (Web Store)
<wa5cab@cs.com> (Primary email)
<wa5cab@houston.rr.com> (Backup email)

--part1_9a.1b2d4d40.2ee51ac3_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--part1_9a.1b2d4d40.2ee51ac3_boundary--

From: Wj5mh@aol.com
Message-ID: <84.3a176ad3.2ee539d7@aol.com>
Date: Sun, 5 Dec 2004 23:28:07 EST
Subject: Need Elmer for AI2Q 6L6 Xmtr
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----1102307287"

-----1102307287
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I just finished my first xmtr built from scratch, and of course it's a 6L6GC rig. Now I have a few questions, but here's a little background.

I've stuck with AI2Q's basic design, but changed a few components based on junk box availability. The meter has been changed to 300 ma. The loading cap is 305 pf, and the tuning cap is 250 pf. The tank coil is wrapped on a 1-1/4 form instead of a 1-1/2, but I've made adjustments and measured 8 uh across my coil per schematic value. The adjustment cap in the grid is a 2-20 pf small air variable instead of a 2-30 pf.

(To make up for the low loading cap value, I add capacitance in parallel with the variable when the 40 meter coil is plugged in. The cap is inside the form.)

I'm running 325 volts under load on the plate and regulated 160 volts on the screen.

Comments and questions:

With max tuning capacitance, plate current is only 35 mils. Normal?

When the dip is reached, oscillations stop and plate current falls to about 20 mils. Normal?

At this point, I reduce capacitance slightly until I see power. Now I simply adjust for max output on the wattmeter while adjusting tune and load. Final current is 30 mils with about 7 watts output into a 50 ohm dummy load. It looks like there is a dip on the meter, but with a 300 ma meter, resolution at 30 mils isn't the best.

Load capacitance peaks at about 700 pf (midpoint of a 300 pf variable in parallel with 560 pf fixed), and that seems very high to me.

I guess I just need to know what I should be seeing and compare that with what I am seeing, so if there is a problem, I can dig into the rig a little more.
Comments?

Joe

-----1102307287
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
* (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

-----1102307287--

Message-ID: <BAY4-DAV13BB5BB2108D7D3348113DA0B40@phx.gbl>
From: "JAMES HANLON" <knjhanlon@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>

Cc: "doc" <doc@cybermesa.com>
Subject: WTB: 1930's transmitter
Date: Sun, 5 Dec 2004 22:41:48 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A friend who is not a list member but who has been bitten by the Boatanchor Bug has asked me to post this for him. He has asked me to help him set up a 1930's station. He needs a transmitter from the era to go along with his NC-101X. Anyone have a spare NTX-30, Hallicrafters HT-9, Stancor 20-P, etc? He might consider a cosmetically nice homebrew transmitter. Please reply to him directly, doc@cybermesa.com .

Thanks,

Jim, W8KGI

Message-ID: <017401c4db7f\$1f4a2960\$6601a8c0@akorn.net>
From: "Tom Rauch" <w8ji@contesting.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Need Elmer for AI2Q 6L6 Xmtr
Date: Mon, 6 Dec 2004 05:34:10 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's been over 40 years since I built a 6L6 oscillator/transmitter, but...

> With max tuning capacitance, plate current is only 35
mils. Normal?

Maybe. Depends on a lot of things including crystal activity, but it sounds reasonable. 47k is a big grid leak resistor, so I expect you have pretty some good grid bias and a very short conduction angle.

> When the dip is reached, oscillations stop and plate
current falls to about
> 20 mils. Normal?

Probably. He has 100pF from cathode to the chassis. That means there is considerable negative feedback through the tube, and heavily underloading the anode could stop the

oscillation easily. That interaction is a price you pay for a single stage oscillator/transmitter!

> At this point, I reduce capacitance slightly until I see power. Now I simply
> adjust for max output on the wattmeter while adjusting tune and load. Final
> current is 30 mils with about 7 watts output into a 50 ohm dummy load. It
> looks like there is a dip on the meter, but with a 300 ma meter, resolution at 30
> mils isn't the best.

Sounds OK to me allowing for reasonable measurement tolerances in current, RF power, and voltage.

> Load capacitance peaks at about 700 pf (midpoint of a 300 pf variable in
> parallel with 560 pf fixed), and that seems very high to me.

Sounds close to me. If the 6L6 oscillator "enjoys" operating at 5000 ohms load impedance (a reasonable rough value) the capacitance at the anode would be about 70pF and the loading cap value would be over 500pF with an overall network operating Q of about 15 at 8uH tank coil inductance.

Maybe your 8uH is NOT 8uH, and the operating Q is higher. How and what did you use to measure it?

BTW, you do want a pretty high Q I would think. It doesn't hurt much. Better than too low.

73 Tom

Date: Mon, 6 Dec 2004 07:29:18 -0500 (EST)
From: stuck in 50s <polepeeg@ba-watch.org>
Message-Id: <200412061229.iB6CTIlo027861@fracas.netboobie.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47

> on waking a sleeping dragon: dragon might *help* but it's more likely he won't

Adm Yamamoto alluded to same on an event anniversary that turns 63 tomorrow.

> If someone is really a consistent pain, a -friendly- visit by a

half-dozen guys to "counsel" him will do the trick without waking the dangerous dragon.

ARRL calls it self-policing of the amateur service. However I've never seen a Newington manual on managing a godfather squad

Date: Mon, 6 Dec 2004 07:49:31 -0500 (EST)
From: stuck in 50s <polepeeg@ba-watch.org>
Message-Id: <200412061249.iB6CnVpb027989@fracas.netboobie.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fw: The ARRL Letter, Vol 23, No 47

> pumping up bass & treble dudsville

So say I.

Do note getting under 300hz w. a analog filter* rig NG. Won't work.

But w. brick-wall DSPs it will but who has corerespondent RXs?

And most operator voices sound like Arnold Stang anyway - so digital voice freq-spectrum shifters a better tack... Tech America once had 'em for a few bux & the patron saint of psychoacoustic SSB Bob Heil missed the repackaging opportunity. Shame of it all.

Now more treble. BAD, that on AM/SSB does widen things. But who's gonna call his dog with a Wheaties dog whistle on 75M? Why??
OK, ok, there's that hidden-agenda SSB tester kink - never thotta that.

Listen to the Heathen Rage (John 4:11 - or is that the aisle/row of the stadium bathroom?)

Marty

*If a phasing rig you'll start going DSB when you leave the 300-3000 90-degree 'window.'

From: Wj5mh@aol.com
Message-ID: <fb.65bff4a2.2ee5b14d@aol.com>
Date: Mon, 6 Dec 2004 07:57:49 EST
Subject: Re: Need Elmer for AI2Q 6L6 Xmtr
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 12/6/2004 4:34:22 AM Central Standard Time,
w8ji@contesting.com writes:

Maybe your 8uH is NOT 8uH, and the operating Q is higher.
How and what did you use to measure it?

Tom... Thanks for your reply. I'm using an Autek VA-1 to measure the inductance, and last night, I thought that the measurement could be off. The calculated number of turns for 8 uh for my form is 20.5. I have 18, although I do have one layer of fiberglass tape around the form. I may just wind a new one to see what happens. The Q and the loading capacitance should drop, correct? But, do I really want a lower Q?

Joe

Message-ID: <01d401c4db95\$81a37600\$6601a8c0@akorn.net>
From: "Tom Rauch" <w8ji@contesting.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Need Elmer for AI2Q 6L6 Xmtr
Date: Mon, 6 Dec 2004 08:14:24 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Tom... Thanks for your reply. I'm using an Autek VA-1 to
measure the
> inductance, and last night, I thought that the measurement
could be off. The
> calculated number of turns for 8 uh for my form is 20.5.
I have 18, although I do
> have one layer of fiberglass tape around the form. I may
just wind a new one
> to see what happens. The Q and the loading capacitance
should drop, correct?
> But, do I really want a lower Q?

The problem with using the Autek is everything from the diode detectors inside to the coil will make the inductor appear larger than it actually is, assuming the leads don't go past resonance at the frequency you measure.

Save that Autek for things it does best, like measuring SWR.

If you want to measure the coil, use a good old GDO or the

Autek or something with *very* short leads to find the resonant frequency of a L/C combination. A GDO is probably better.

I can't imagine being off even by a factor of four times with Q will hurt a thing, as long as the operating Q is significantly more than the square root of the impedance ratio between the anode and the load. Say $5000\text{ohms}/50\text{ohm} = 100$ $\text{sqrt of } 100 = 10$

So any Q over 12 or 15 would be cool. More and more as you need better second harmonic rejection, assuming your layout is good.

Most people just guess at the Q needed anyway, or pull a number out from a place near their back pocket.

73 Tom

End of BOATANCHORS Digest 3734
